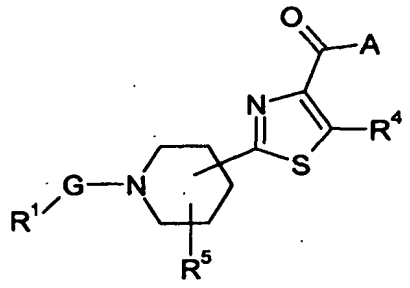
CLAIMS

1. Compounds of the formula (I):



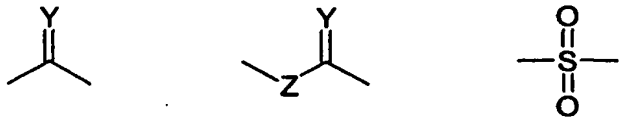
(I)

in which:

- A represents a radical chosen from the radicals a1 and a2 below:

a1 ; a2 ;

- G represents a divalent bond or radical chosen from the groups g1, g2 and g3 below:



g1 ; g2 ; g3 ;

- R^1 is chosen from hydrogen and an alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, alkylcarbonyl or alkoxycarbonyl radical;
- R^2, $R^{2'}$ and R^3, which may be identical or different, are chosen, independently of each other, from a hydrogen atom, an alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl or heteroaryl radical and a radical -NRR'; or

- R^2 and R^3 together form, with the nitrogen atom that bears them, a heterocycle;
- R^4 and R^5, which may be identical or different, are chosen, independently of each other, from a hydrogen atom, an alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl or heteroaryl radical and a radical -NRR';
- R and R', which may be identical or different, represent, independently of each other, a hydrogen atom or a radical chosen from alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl and heteroaryl; or together form, with the nitrogen atom that bears them, a heterocycle, or together form the double bond of an alken-1-yl radical;
- Y represents an oxygen or sulfur atom; and
- Z represents -NH- or an oxygen atom;

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;
and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

2. Compounds according to Claim 1, for which the radical R^5 represents hydrogen,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

3. Compounds according to Claim 1 or Claim 2, for which the radical R^4 represents hydrogen,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

4. Compounds according to any one of the preceding claims, in which the thiazolyl radical is branched in position 3 or in position 4 of the piperidine nucleus,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

5. Compounds according to any one of the preceding claims, in which the thiazolyl radical is branched in position 4 of the piperidine nucleus,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

6. Compounds according to any one of the preceding claims, in which G represents the radical g1,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

7. Compounds according to any one of the preceding claims, in which G represents the radical g1 and Y represents an oxygen atom,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

8. Compounds according to any one of the preceding claims, in which the radical R^4 represents hydrogen, the radical R^5 represents hydrogen, the thiazolyl radical is branched in position 4 of the piperidine nucleus, and G represents the radical g1 in which Y represents an oxygen atom,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

9. Compounds according to any one of the preceding claims, in which R^1 represents an aryl radical, especially phenyl, substituted by one or more aryl and/or alkyl radicals,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

10. Compounds according to any one of the preceding claims, in which R^1 represents a biphenyl radical, optionally substituted by one or more alkyl radicals, preferably methyl, ethyl or propyl, and/or with a perhaloalkyl or perhaloalkoxy radical,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

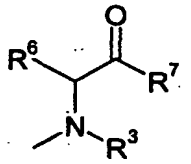
and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

11. Compounds according to any one of the preceding claims, in which A represents a2,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

12. Compounds according to any one of the preceding claims, in which A represents a radical of the formula a2' below:



a2'

in which R^6 and R^7, which may be identical or different, and independently of each other, have the same definitions as the radicals R^2 and R^3 defined in Claim 1,

the other substituents having the same definitions as those given above,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

13. Compounds according to any one of the preceding claims, in which G represents the radical g1, with Y representing an oxygen atom, R^1 represents a biphenyl radical, optionally substituted by one or more alkyl radicals, preferably

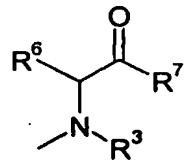
methyl, ethyl or propyl, and/or a trifluoromethyl or trifluoromethoxy radical, and A represents a2,

the other substituents being as defined above,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

14. Compounds according to any one of the preceding claims, in which G represents the radical g1, with Y representing an oxygen atom, R^1 represents a biphenyl radical, optionally substituted by one or more alkyl radicals, preferably methyl, ethyl or propyl, and/or a trifluoromethyl or trifluoromethoxy radical, and A represents a2' of the formula:



a2'

in which R^6 and R^7, which may be identical or different, and independently of each other, have the same definitions as the radicals R^2 and R^3 defined in Claim 1,

the other substituents being as defined above,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

15. Compounds according to any one of the preceding claims, chosen from:

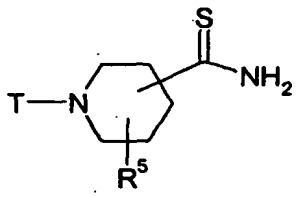
- N-ethyl-N-(1-methyl-2-oxo-2-phenylethyl) 2-[1-(4'-trifluoromethyl-biphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carbamate;

- N-ethyl-N-(1-methyl-2-oxo-2-pyrid-3-ylethyl) 2-[1-(4'-trifluoromethyl-biphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carbamate;
- N-ethyl-N-(1-methyl-2-oxo-2-phenylethyl) 2-[1-(6-methyl-4'-trifluoro-methoxybiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carbamte;
- N-ethyl-N-(1-methyl-2-oxo-2-pyrid-2-ylethyl) 2-[1-(6-methyl-4'-trifluoromethoxybiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carbamate.
- N-[cyano(4-fluorophenyl)methyl]-N-phenyl-2-[1-(4'-trifluoromethyl-biphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide ;
- N-(*α*-cyanobenzyl)-N-ethyl-2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide ;
- 2-{1-{4'-(trifluoromethyl)-1,1'-biphenyl-2-yl]carboxyl}piperid-4-yl}-1,3-thiazole-4-carboxylic acid
- 1-(4-{4-(3-hydroxypiperid-1-yl)methanoyl]thiazol-2-yl}piperid-1-yl)-1-(4'-trifluoromethylbiphenyl-2-yl)methanone
- N-methyl-N-(1-methyl-2-oxo-2-phenethyl)-2-[1-(4'-trifluoromethylbi-phenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide
- N-methyl-N-(1-methyl-2-oxo-2(*S*)-phenethyl)-2-[1-(4'-trifluoromethyl-biphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide
- N-(7-oxo-7H-thieno[3,2-b]pyran-6-yl)-2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide
- N-(2-methyl-4-oxo-4H-chromen-3-yl)-2-[1-(6-methyl-4'-trifluoro-methoxybiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide
- N-(*α*-cyanobenzyl)-N-isopropyl-2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide ; and
- N-[1-cyano-1-(pyrid-4-yl)methyl)-N-isopropyl-2-[1-(4'-trifluoromethyl-biphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide;

the optical isomers thereof, oxidized forms, solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid, or the pharmaceutically acceptable prodrugs of these compounds.

16. Process for the preparation of a compound according to any one of Claims 1 to 15, characterized in that a compound of the formula (II):

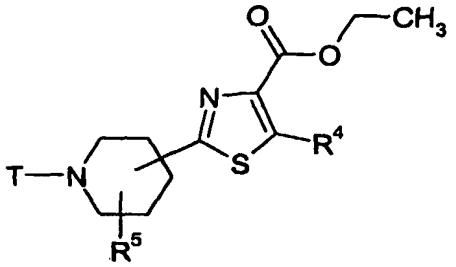


(II)

in which T represents a labile protecting group, and R^5 is as defined in Claim 1,

is reacted with ethyl R^4-bromopyruvate, generally in equimolar proportions, in a polar solvent, in the presence of an excess of base, preferably an organic base, at a suitable temperature, for a time ranging from 1 to 40 hours and preferably between 4 and 18 hours,

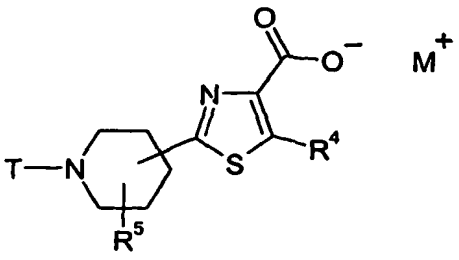
so as to form the thiazolyl ring and give the compound of the formula (III):



(III),

in which T is as defined above and R^4 and R^5 are as defined in Claim 1,

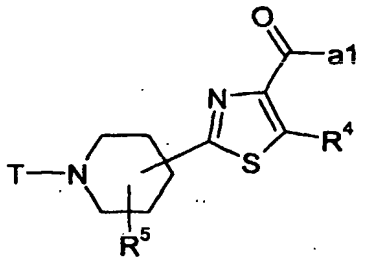
which compound of the formula (III) is then saponified with a base, of alkali metal or alkaline-earth metal hydroxide type, in polar medium, at room temperature, for a time ranging from 1 to 12 hours, so as to form the salt of the formula (IV):



(IV),

in which T, R^4 and R^5 are as defined above, and M^+ represents the alkali metal or alkaline-earth metal cation derived from the base that is useful for the saponification reaction,

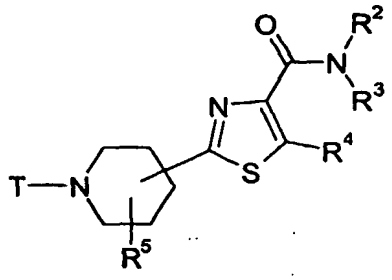
which compound of the formula (IV) is next hydrolysed and then/or esterified to a compound of the formula (V1):



(V1),

in which R^4, R^5, a1 and T are as defined above,

or converted into the corresponding amide of the formula (V2):

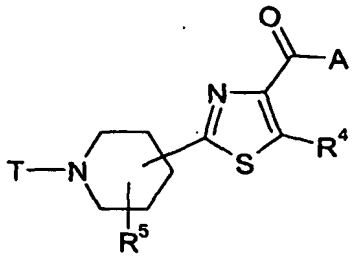


(V2),

in which R^2, R^3, R^4, R^5 and T are as defined above,

via the action of an amine of the formula HNR^2R^3, in the presence of a base and a catalyst, in a polar aprotic solvent, at room temperature, for a time that can range from 1 to 50 hours.

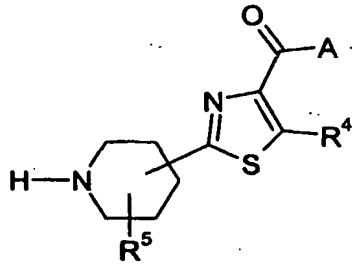
the compounds of the formulae (V1) and (V2) together forming the compound of the formula (V):



(V),

in which R^4, R^5, A and T are as defined above,

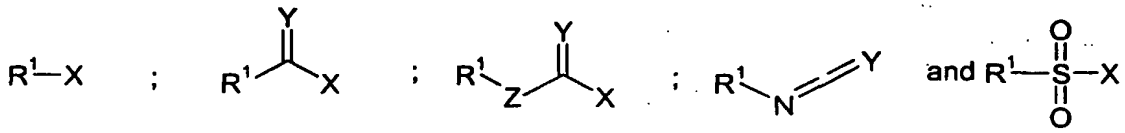
which compound of the formula (V) is then used in a reaction for deprotection of the amine function of the piperidine ring, via the action of an organic or mineral acid, in dichloromethane or dioxane medium, at room temperature, for a time ranging from a few minutes to a few hours, generally ranging from five minutes to 12 hours, to give the compound of the formula (VI):



(VI),

which is a special case of the compounds of the formula (I), in which R^1 represents hydrogen, G represents a bond, A, R^4 and R^5 being as defined above,

which is then subjected to the action of a compound chosen from:



in which X represents a halogen atom, preferably chlorine, R^1, Y and Z being as defined in Claim 1,

in the presence of a base, preferably an organic base, and a catalyst, in a polar aprotic solvent, at room temperature, for a time that can range from 1 to 50 hours,

to give the compound of the formula (I) as defined in Claim 1.

17. Pharmaceutical composition comprising a pharmaceutically effective amount of a compound of the formula (I) according to any one of Claims 1 to 15 or obtained via a process according to Claim 16, in combination with one or more pharmaceutically acceptable vehicles.

18. Use of a compound of the formula (I) according to any one of Claims 1 to 15 or obtained via a process according to Claim 16, for the preparation of a medicament for the treatment of hypertriglyceridaemia, hypercholesterolaemia and

dyslipidaemia associated with diabetes, and also for the prevention of and treating obesity.